

# Notice of Allowability

Application No.

10/629,893

Examiner

Jennifer Doan

Applicant(s)

KIM ET AL.

Art Unit

2874

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on March 27, 2007.
2. ☒ The allowed claim(s) is/are 1-11 and 13-19.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

  
**JENNIFER DOAN**  
**PRIMARY EXAMINER**

## **DETAILED ACTION**

### ***Response to Amendment***

1. Applicant's amendment, filed on March 27, 2007, has been fully considered and entered.

### ***Reasons for Allowance***

2. Claims 1-11 and 13-19 are allowed.

3. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to disclose or reasonably suggest all the limitations recited in claim 1. Specifically, the prior art of record fails to disclose a method for monitoring a spin imparted on an optical fiber comprising the steps of photographing a dispersion pattern peculiar to the spun optical fiber with a camera from scattered light; and displaying the photographed dispersion pattern, wherein a form of the spin imparted on the optical fiber is monitored based on the displayed dispersion pattern in combination with the other limitations of claim 1.

Claims 2 and 3 depend from claim 1.

The prior art of record also fails to disclose or reasonably suggest all the limitations recited in claim 4. Specifically, the prior art of record fails to disclose a method for making an optical fiber comprising the steps of photographing dispersion

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patterns peculiar to the spun optical fiber comprising the steps of photographing dispersion patterns peculiar to the spun optical fiber from scattered light naturally generated by the spin imparted on the optical fiber; and wherein first and second dispersion patterns are photographed respectively at a first torque point in a clockwise direction and a second torque point in a counterclockwise direction which is symmetric to the first torque point and determining bi-directional symmetry of the imparted spin by comparing the photographed first and second dispersion patterns in combination with the other limitations of claim 4.

Claims 5-11 depend from claim 4.

The prior art of record also fails to disclose or reasonably suggest all the limitations recited in claim 13. Specifically, the prior art of record fails to disclose a method for controlling bi-directional symmetry of alternating symmetrical spins imparted on an optical fiber in an optical fiber making process including the steps of imparting clockwise/counterclockwise alternating spins on the optical fiber by contacting the coated optical fiber to a guide roller and then vibrating the guide roller on the center of an axis substantially parallel to a drawing axis, wherein the method comprises the steps of photographing dispersion patterns peculiar to the spun optical fiber from scattered light naturally generated by the spin imparted on the optical fiber; and wherein first and second dispersion patterns are photographed respectively at a first torque point in a clockwise direction of the optical fiber and a second torque point in a counterclockwise direction which is symmetric to the first torque point, rearranging a center of the guide

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roller relative to the drawing axis and the rotating axis so that the number of the photographed first dispersion patterns is coincident with the number of the photographed second dispersion patterns in combination with the other limitations of claim 13.

Claims 14-19 depend from claim 13.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer Doan whose telephone number is (571) 272-2346. The examiner can normally be reached on Monday to Thursday from 6:00am to 3:30pm, second Friday off.

5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



JENNIFER DOAN  
PRIMARY EXAMINER